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10/047,023

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EXAMINER

CHOWDHURY, SUMAIYA A

ART UNIT

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2421

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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/047,023	<b>Applicant(s)</b> BODIN ET AL.	
	<b>Examiner</b> SUMAIYA A. CHOWDHURY	<b>Art Unit</b> 2421	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 21 October 2008.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-4,6-9,11,12 and 14-16 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-4,6-9,11,12 and 14-16 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

## **DETAILED ACTION**

### ***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/21/08 has been entered.

### ***Response to Arguments***

2. Applicant's arguments with respect to claims 1-4, 6-9, 11, 12 and 14-16 have been considered but are moot in view of the new ground(s) of rejection.  
  
(a) Applicant argues that the proposed combination of Lee, Ellis, and Welk does not disclose or suggest downloading PLSC to a user client device in dependence upon priority.

Examiner has brought in Asamoto (7017179) to teach that limitation.

### ***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Art Unit: 2421

4. Claims 1-4, 6-9, 11-12, and 14-16, are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee in view of Ellis (7185355), Asamoto (7017179), Welk (5828585), and Flickinger (US 2002/0083441).

As for claim 1, Lee teaches a method of providing preferred location specific content for interleaving into broadcast content, the method comprising the steps of:

storing user preferences in user preference records in a content server (30 – fig. 3; col. 11, lines 41-52);

storing location specific content (LSC) in LSC records in the content server (ads, navigation services, traffic alerts; col. 11, lines 24-41, col. 11, line 60-col. 12, line 3, col. 12, lines 13-17), wherein LSC records comprise data elements comprising digital content, content type, and target location (fig. 5; col. 5, lines 52-63, col. 7, lines 4-23).

receiving, from a digital communications network, a location of a user client device (col. 6, lines 54-67, col. 7, lines 19-24, col. 14, lines 10-15, lines 54-65, col. 11, lines 30-35);

determining local date and time at the location of the user client device (col. 11, lines 31-34);

storing more than one indication of the location of the user client device and, associated with each such indication of location of the user client device, the local time when the user client device was at the location (In order to provide traffic alerts and navigation services, the location of the user is needed – col. 7, lines 19-25, col. 8, lines 37-41);

Art Unit: 2421

Calculating direction (route) of travel of the user client device (col. 11, line 60-col.12, line 18)

creating preferred location specific content (PLSC) records in the content server, the creating carried out in dependence upon the LSC records, the user preferences, the location of the user client device, and the local date and time at the location of the client device (Based on the above factors, navigation services and traffic alerts are provided. Col. 11, line 24-col. 12, line 19), wherein creating preferred location specific content (PLSC) records in dependence upon the user preferences, the location of the user client device, and the local date and time at the location of the client device further comprises creating preferred location specific content (PLSC) records in dependence upon the user preferences, the location of the user client device, the local date and time at the location of the client device, and the direction of travel of the user client device (col. 11, line 24-col. 12, line 45); and

downloading the PLSC records through the digital communications network from the content server to the user client device (col. 11, line 24-col. 12, line 19), wherein the PLSC records to be downloaded include priority, and downloading the PLSC to the user client device further comprises:

However, Lee fails to teach:

data elements comprising: duration, relevant date range, and relevant time range.

calculating, in dependence upon the stored indications of location and time, a speed of the user client device;

Art Unit: 2421

downloading the data to the user client device in dependence upon priority and  
excluding priority from the downloaded data records;  
storing the downloaded data records in a data queue; and  
selecting from the data queue a data record having a duration equal to or less  
than a duration for a next interleave slot indicated in a broadcast schedule for the  
broadcast content;

In an analogous art, Ellis teaches providing a program guide which lists the  
duration of a program, and the relevant date range, and relevant time range (col. 4,  
lines 37-47).

It would have been obvious to one of ordinary skill in the art at the time of  
applicant's invention to modify Lee's invention to include the above mentioned limitation,  
as taught by Ellis, for the advantage of providing a means for a user to select content  
from based on a desired time and date.

However, Lee and Ellis fail to teach:

calculating, in dependence upon the stored indications of location and time, a  
speed of the user client device;

downloading data to the user client device in dependence upon priority and  
excluding priority from the downloaded data;  
storing the downloaded data records in a data queue; and  
selecting from the data queue a data record having a duration equal to or less  
than a duration for a next interleave slot indicated in a broadcast schedule for the  
broadcast content;

Art Unit: 2421

In an analogous art, Asamoto teaches:

downloading data to the user client device in dependence upon priority (col. 7, lines 25-33) and excluding priority from the downloaded data records (After the content is downloaded, priority is no longer associated with it. Priority is associated with it when the event occurs in order to alert the user.).

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify Lee's invention to include the above mentioned limitation, as taught by Asamoto, for the advantage of reliably receiving the data of a program the user strongly wants to successfully download and to download the data of programs in a sequence which is advantageous to the user.

However, Lee, Ellis, and Asamoto fail to disclose:

calculating, in dependence upon the stored indications of location and time, a speed of the user client device;

storing the downloaded data records in a data queue; and

selecting from the data queue a data record having a duration equal to or less than a duration for a next interleave slot indicated in a broadcast schedule for the broadcast content;

In an analogous art, Welk teaches calculating, in dependence upon the stored indications of location and time, a speed of the user client device (col. 7, line 64-col. 8, line 5)

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify Lee, Ellis, and Asamoto's invention to include the above

Art Unit: 2421

mentioned limitation, as taught by Welk, for the advantage of determining the position of the vehicle when GPS signals are unavailable.

However, Lee, Ellis, Asamoto, and Welk fail to teach:

storing downloaded data records in a data queue; and

selecting from the data queue a data record having a duration equal to or less than a duration for a next interleave slot indicated in a broadcast schedule for the broadcast content;

In an analogous art, Flickinger teaches:

storing downloaded data records in a data queue; and selecting from the data queue a data record having a duration equal to or less than a duration for a next interleave slot indicated in a broadcast schedule for the broadcast content. Flickinger additionally teaches that the duration of the content is also downloaded in order for the appropriate content to be selected – [0063];

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify Lee, Ellis, Asamoto, Welk's invention to include the abovementioned limitation, as taught by Flickinger, for the advantage of matching the duration of the available space.

As for claim 2, Lee teaches wherein storing LSC further comprises receiving user preferences entered by a user through a browser (col. 12, lines 28-44).



Art Unit: 2421

As for claim 3, Lee teaches storing LSC further comprises data mining LSC from vendors' customer databases ("ads mesh with that individual's buying interests" – col. 11, lines 42-52, col. 11, line 65-col. 12, line 5).

As for claim 4, Lee teaches wherein user preference records comprise data elements comprising priority (Alerts user when predetermined events such as when a stock reaches a set value, or when there is a traffic delay on the user's route; col. 12, lines 13-18) and user preferences (col. 11, line 42-col. 12, line 18).

As for claim 6, Lee teaches wherein PLSC records comprise data elements comprising digital content (col. 11, lines 25-42, col. 11, line 60-col. 12, line 18), duration, and user identification (col. 11, lines 42-52, col. 14, lines 1-10). Ellis teaches data elements comprising duration (col. 4, lines 37-47)

As for claim 7, Lee teaches wherein creating PLSC records further comprises selecting LSC records in dependence upon the user preferences, the location of the user client device (col. 11, line 42-col. 12, line 18), and the local date and time at the location of the client device (Lee's system uses GPS; it is inherent for a GPS system to determine local date and time).

As for claim 8, Lee teaches wherein creating PLSC records further comprises selecting LSC records having content types, target locations, and relevant date and time

Art Unit: 2421

ranges that match, for a user, the user preferences from a user preference record for the user, the location of the user client device associated with the user, and the local date and time at the location of the user client device associated with the user (col. 11, line 42-col. 12, line 18).

As for claim 9, Lee teaches downloading the PLSC records to the user client device further comprises downloading the PLSC to the user client device at the network address for the user client device within the digital communications network, wherein the PLSC so downloaded comprises digital content (col. 11, line 24-col. 12, line 18). Ellis teaches the program guide downloaded comprises duration of programs (col. 4, lines 37-47).

As for claim 11, Lee teaches wherein downloading the PLSC to the user client device further comprises downloading the PLSC to the user client device at the address with which the user client device is associated in the digital communications network, wherein the PLSC downloaded comprises digital content and priority (col. 12, lines 13-18). Ellis teaches the program guide downloaded comprises duration of programs (col. 4, lines 37-47).

Art Unit: 2421

As for claim 12, Lee teaches periodically repeating the steps of receiving a location, determining local date and time (Lee's system uses GPS; it is inherent for a GPS system to determine local date and time), creating PLSC records, and downloading the PLSC records to the user client device. (In order to provide navigation guidance, the current location is continuously transmitted to the server – col. 8, lines 37-50).

Claim 14 contains the limitations of claim 12 and is analyzed as previously discussed with respect to that claim. Claim 14 additionally calls for the following which Welk teaches:

calculating a repetition rate for the step of periodically repeating, wherein calculating a repetition rate is carried out in dependence upon the speed of the user client device (The higher the speed, the more latitude and longitude point are covered. As a result, the vehicle's coordinates are transmitted more often).

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify Lee's invention to include the above mentioned limitation, as taught by Welk, for the advantage of obtaining accurate navigation information.

As for claim 15, Lee teaches:

calculating a calculated area of relevance; and selecting LSC records having target locations within the calculated area of relevance (col. 11, line 60-col. 12, line 18).

Art Unit: 2421

As for claim 16, Lee teaches wherein calculating a calculated area of relevance further comprises projecting where the client device will probably be for a relevant period of time, wherein the projecting is accomplished in dependence upon the direction (route) of the client device (col. 11, line 60-col. 12, line 18).

The combination of Lee and Welk teaches calculating a calculated area of relevance based upon the speed (Welk: abstract, col. 7, line 64-col. 8, line 5).

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SUMAIYA A. CHOWDHURY whose telephone number is (571)272-8567. The examiner can normally be reached on Mon-Fri, 9-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Miller can be reached on (571) 272-7353. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2421

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/John W. Miller/  
Supervisory Patent Examiner, Art Unit 2421

/Sumaiya A Chowdhury/  
Examiner, Art Unit 2421